

AQUACULTURE AND HYDROPONICS: 1968-1978

**BIBLIOGRAPHIES AND
LITERATURE OF AGRICULTURE,
BLA-2, MAY 1979**

**UNITED STATES
DEPARTMENT OF
AGRICULTURE**

**SCIENCE AND
EDUCATION
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Aquaculture and Hydroponics: 1968-1978

Compiled by
Charles N. Bebee
Automated Retrieval Section
National Agricultural Library

Bibliographies and Literature
of Agriculture, BLA-2, May 1979

U.S. Department of Agriculture
Science and Education Administration
Technical Information Systems
Beltsville, Maryland 20705

CONTENTS

| | <u>Page No.</u> |
|---|-----------------|
| Preface..... | iii |
| Sample Citation..... | iv |
| Availability of References Cited..... | v |
| Search Strategy..... | vi |
| 0505 General Agriculture..... | 1 |
| 1005 Agricultural Economics and Rural Sociology..... | 1 |
| 2005 Agricultural Products..... | 3 |
| 2505 Animal Science..... | 5 |
| 3005 Veterinary Medicine..... | 6 |
| 3515 Forestry..... | 6 |
| 4005-4025 Plant Science..... | 6 |
| 4030 Plant Physiology and Biochemistry-General..... | 7 |
| 4035 Physiology and Biochemistry of Field Crops..... | 12 |
| 4040 Physiology and Biochemistry of Horticultural Crops..... | 15 |
| 4045 Physiology and Biochemistry of Forest Trees..... | 22 |
| 4050 Field Crops-Culture..... | 22 |
| 4055 Horticultural Crops, Culture..... | 25 |
| 4060 Miscellaneous Economic Plants, Culture..... | 44 |
| 4505-4560 Plant Diseases, Insect Pests, and Control..... | 45 |
| 5505-5510 Agricultural Engineering and Farm Structures..... | 47 |
| 5510 Farm Equipment..... | 48 |
| 6005 Soil and Water Resource Management..... | 49 |
| 6505 General Natural Resources and Environmental Pollution..... | 52 |
| 7005 Life Sciences..... | 55 |
| Old Category Codes (all entries for 1970-1971) arranged in single alphabetical order. | 58 |

PREFACE

Citations for this bibliography were pulled from the AGRICOLA citation database online. They represent:

- Articles, monographs, and series, regardless of language, indexed at the National Agricultural Library since the publication of the January 1970 issues of the Bibliography of Agriculture and the National Agricultural Library Catalog.
- Literature received more than one year after publication is generally not indexed; exceptions are made for important scientific publications.

Some duplication of citations occurs because the system requires separate entries for each of the separate files which are incorporated into AGRICOLA. The compiler has attempted purging of known duplicate entries.

The bibliography is a broad subject arrangement by categories as used in The Bibliography of Agriculture; subarrangement is alphabetical by author. A personal author index is included.

User comments and suggestions are welcomed and should be forwarded to the compiler, Charles N. Bebee.

Citations listed on pages 58 - 65 are items from old category codes 1970-1971. These cannot be sorted online and are, therefore, arranged in single alphabetical order.

Richard A. Farley
Deputy Director
Technical Information Systems
Science and Education Administration
U.S. Department of Agriculture

SAMPLE CITATION

| | | | |
|----------------------|--|--------------------------------|--|
| Lockheed Number | | AGRICOLA Tape Number | |
| NAL Call Number | 1299904 | Title | |
| Personal Author | QC851.J6 | Id No: 77-9092127 | |
| Journal Title | The scales of hail .North American data. | | |
| Abbreviation | Changnon, S A Jr | | |
| | J Appl Meteorol | 16 (6) : 626-648, Maps, Ref. | June 1977 |
| | QC851.J6 | | |
| NAL Call Number | Search: 19770600 | Doc Type: ARTICLE, REVIEW, BIB | Vol., issue no., inclusive pagination, date of publication |
| Inverted Source Date | Source: OTHER US | | |
| Category Code | Cat Code: 0505 | | |
| | Descriptors: North America | | |
| Descriptor term(s) | Type of Document | | |

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2. Loan Period and Renewals: Material is loaned for 30 days from the date it is charged at NAL. Renewals should be requested by phone (301-344-3761).
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NOTE: USDA EMPLOYEES RECEIVE FREE SERVICE AND SHOULD NOT SUBMIT REQUESTS ON THE FORMS DESCRIBED ABOVE

SEARCH STRATEGY

| Set | Items | Description |
|-----|-------|------------------|
| 1 | 90 | AQUACULTURE? |
| 2 | 139 | WATER(F)CULTURE |
| 3 | 53 | WATER(F)CULTURES |
| 4 | 263 | HYDROPON? |
| 5 | 542 | 1-4/+ |
| 6 | 256 | 5/MAJ |
| 7 | 7 | AQUICULTURE? |
| 8 | 67 | SOILLESS |
| 9 | 324 | 6+7+8 |
| 10 | 279 | 9/MAJ |
| 11 | 353 | 1+4 |
| 12 | 95 | 10-11 |
| 13 | 44 | WATER(W)CULTURE |
| 14 | 9 | WATER(W)CULTURES |
| 15 | 8 | HYDROCULTUR? |
| 16 | 467 | 1+4+7+8+13+14+15 |
| 17 | 233 | 16/MAJ |
| 18 | 234 | 16/MIN |
| 19 | 2 | SOIL(W) LESS |
| 20 | 468 | 16+19 |
| 21 | 22496 | CC-55? |
| 22 | 16276 | CC=6020 |
| 23 | 20144 | CC=6505 |
| 24 | 3443 | OC=85 |
| 25 | 5497 | OC=30 |
| 26 | 67250 | 21-25/+ |
| 27 | 50 | 20+26 |
| 28 | 418 | 20-27 |
| 29 | 197 | 28/MAJ |
| 30 | 0 | BEBEE/MORAN |

Print 20/2/1-468

Search Time: 0.389 Prints: 468 Descs.: 20

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

1315940

77.910971 Id No: 77-9910971
 Aquaculture economics research needs; report from a workshop to identify aquaculture economics research needs. Atlanta. Georgia -- April 23. 1976
 Smith, F J; Roberts, K J
 Charleston, SC. S. C. Marine Res Ctr S. C. Sea Grant Pgm. Tech Rep 5, 43 p Aug 1976
 77.910971
 Search: 19760800
 Source: OTHER US Doc Type: MONOGRAPH Location: AGE
 Cat Code: 1005
 Descriptors: Research Needs; Aquaculture

1257025

281.8 EK72 Id No: 77-9053494
 Tehnicka i ekonomska procena razlicitih nacina uzgoja riba u ribnjacima. 2: Technical and economic estimate of different types of aquaculture in fish ponds .Farm management.
 Apostolski, K M; Arsovski, B S
 Ekon Poljopr 23 (5): 37-50. Eng. sum. May 1976
 281.8 EK72
 Language: SCR
 Search: 19760500
 Doc Type: ARTICLE
 Cat Code: 1010
 Descriptors: Yugoslavia

1330057

72.8 K522 Id No: 77-9117359
 Cost accounting in exploitative aquicultural economies .Irrigation economics.
 pinkhasov, M; Polinov, S
 Khlopkovodstvo 8: 38-40. Aug 1976
 72.8 K522
 Language: RUS
 Search: 19760800
 Doc Type: ARTICLE
 Cat Code: 1010; 6020

GENERAL AGRICULTURE

1358666

SH1.F54 Id No: 78-9007852
 The integration of aquaculture with agriculture
 Buck, D H
 Fisheries 2 (5): 11-12, 14-16. Nov/Dec 1977
 SH1.F54
 Search: 19771200
 Source: OTHER US Doc Type: ARTICLE
 Cat Code: 0505

591847

80 R3212 Id No: 73-9149678
 L'aquiculture, technique d'avenir; Hydroponics, crop culture of the future
 Cesar, G
 Rev Hort Suisse 45 (5): 41-42. Feb 1973
 80 R3212
 Language: FRE
 Search: 19730200
 Doc Type: ARTICLE
 Cat Code: 0505

1051876

HD1945.A115 Id No: 75-9121107
 L'u'time reserve de l'humanite? Les fermes marines; Maritime farms, the ultimate reserve of humanity? .Aquaculture.
 Haberkorn, J P
 Inf Agric (Paris) 461: 34-36. Sept 1975
 HD1945.A115
 Language: FRE
 Search: 19750900
 Doc Type: ARTICLE
 Cat Code: 0505

780136

389.9 S018 Id No: 73-9227559
 L'aquaculture: Source nouvelle de proteines alimentaires; Aquaculture: A new source of food proteins
 Rouzaud, P
 Bull Soc Sci Hyg Aliment 61 (1): 18-31. 1973
 389.9 S018
 Language: FRE
 Search: 19730000
 Doc Type: ARTICLE

- 1267631 Id No: 77-9910337
100 AL1H Economic comparisons of singled cropped and multiple cropped catfish production systems
Crawford, K W
Alabama, Agricultural Experiment Station
Highlights Agric Res 23(3): 6 - Fall 1976
100 AL1H
Search: 19760000 Doc Type: ARTICLE Location: AGE
Source: EXP STN
Cat Code: 1015
Descriptors: Cost And Returns; Aquaculture; Alabama
- 1315913 Id No: 77-9910800
281.8 C16 An economic evaluation of aquaculture in Ontario
Lerner, A
Can J Agric Econ 25(1): 74-79 Feb 1977
281.8 C16
Search: 19770200
Doc Type: ARTICLE Location: AGE
Cat Code: 1015
Descriptors: Fisheries; Hatchery; Equipment; Labor
Requirements; Feeding; Costs; Marketing; Consumption
- 1235744 Id No: 77-9035319
80 W41 Costs and losses of soil and soilless media
Poole, H A
Florists Rev 159 (4132): 62, 87-91. Feb 10, 1977
80 W41
Search: 19770210
Source: OTHER US Doc Type: ARTICLE
Cat Code: 1015; 6005
- 1329359 Id No: 77-9910879
SH222.A107 Analyzing a new marine business
Smith, F J
Oregon State University, Extension Service
Sea Grant S G Oreg State Univ Mar Adv Program 34, 8 p
Nov 1976
SH222.A107
Search: 19761100
Source: EXT Doc Type: ARTICLE Location: AGE
Cat Code: 1015
Descriptors: Marine Industry; Business Management; Costs And Returns; Accounting; Resource Allocation

- 1222949 Id No: 77-9023843
SF95.A1P7 Can we afford aquaculture? .Industries.
Conklin, D E
Prof Nutr 8 (3): 3-7. Summer 1976
SF95.A1P7
Search: 19760000 Doc Type: ARTICLE
Source: OTHER US
Cat Code: 1030
Descriptors: United States
- 648578 Id No: 72-9122453
41.8 AM3 Aquaculture and mariculture: protein potentials
Poppensiek, G C
Amer Vet Med Assoc J 161 (11): 1467-1475. Ref. Dec 1, 1972
41.8 AM3
Search: 19721201
Doc Type: ARTICLE
Cat Code: 1030
- 885909 Id No: 74-9081588
TD172.E57 Critical variables in food-item population dynamics in a wastewater aquaculture system. .Fishery products.
Powers, J E
Environ Prot Technol Ser EPA U S Environ Prot Agency 660/2-74-041: 497-503. June 1974
TD172.E57
Search: 19740600
Doc Type: ARTICLE
Cat Code: 1030
- 848697 Id No: 74-9049127
SH1.A6 Comparison of the economic potential of aquaculture, land animal husbandry and ocean fisheries: the case of Taiwan. .Pig farming.
Shang, Y C
Aquaculture 2 (2): 187-195. Ref. Jun 1973
SH1.A6
Search: 19730600
Doc Type: ARTICLE
Cat Code: 1030
Descriptors: Taiwan

1287737
S19.A32 Id No: 77-9081696
Role of fresh-water aquaculture in integrated rural development in India
Tripathi, S D
Agric Agroind J 9 (12): 31-32. Dec 1976
S19.A32
Search: 19761200
Doc Type: ARTICLE
Cat Code: 1030
Descriptors: India

871440
12 AG8 Id No: 74-9069210
Fish farming or aquaculture can meet future demand for protein-rich food
Agric Newsl Neth 6: 1-4. 1974
12 AG8
Search: 19740000
Doc Type: ARTICLE
Cat Code: 1030

1181840
SH21.15 Id No: 76-9111663
The International Center for Aquaculture: annual report for fiscal year 1975 .Fisheries for growing protein, developing countries, programs.
Alabama, Agricultural Experiment Station, International Center for Aquaculture
Auburn 63 p. Ref. Dec 23, 1975
SH21.15
Search: 19751223
Source: EXP STN Doc Type: MONOGRAPH, BIB
Cat Code: 1030; 2505
Descriptors: Alabama

1318284
381 J8223 Id No: 77-9107328
Hydroponic growth of crops -green beans, cantaloupes, cotton. in solutions saturated with .14C.benzo.a.pyrene
-Carbon isotopes.
Blum, S C; Swarbrick, R E
J Agric Food Chem 25 (5): 1093-1096. Sept/Oct 1977
381 J8223
Search: 19771000
Source: OTHER US Doc Type: ARTICLE
Cat Code: 1505

648579
41.8 AM3 Id No: 72-9122454
Aquaculture and associated diseases of fish of public health importance
Ghittino, P
Amer Vet Med Assoc J 161 (11): 1476-1485. Ref. Dec 1, 1972
41.8 AM3
Search: 19721201
Doc Type: ARTICLE
Cat Code: 1505

795188
22 IN283 Id No: 74-9004014
Protein crisis and aquaculture
Prasad, R R
Indian Farming 23 (6): 5, 38. Sept 1973
22 IN283
Search: 19730900
Doc Type: ARTICLE
Cat Code: 1510
Descriptors: India

AGRICULTURAL PRODUCTS

1051793
501 L84B Id No: 75-9121024
The aquacultural revolution .Cultivation of marine fish andshellfish for food.
Anderson, J I W
Proc R Soc Lond, B Biol Sci 191 (1102): 169-184. Ref. Nov 18, 1975
501 L84B
Search: 19751118
Doc Type: ARTICLE
Cat Code: 2005

1360151
286.81 F322 Id No: 78-9009342
Soft shell crawfish as an aquaculture food product
Huner, J V
Feedstuffs 49 (50): 28-29. Dec 5, 1977
286.81 F322
Search: 19771205
Source: OTHER US Doc Type: ARTICLE, REVIEW
Cat Code: 2005

- 1292275 Id No: 77-9084432
QH705.F64 The food production efficiency of undomesticated species of animals from fish, aquaculture.
Large, R V
In Food Production and Consumption. A N. Duckham, J. G. W. Jones & E. H. Roberts, eds. p. 199-214. Ref. 1976
QH705.F64
Search: 19760000
Doc Type: ARTICLE
Cat Code: 2005
- 1255158
157.8 R29 No.260562 Id No: 77-9682951 Book Cat: 770072 3
Proceedings of the first International Conference on Aquaculture Nutrition, Oct. 14-15, 1975, Lewes/Rehoboth, Del.
... /; Edited by Kent S. Price, Jr., William N. Shaw, Karin S. Danberg. --
Price, Kent S
International Conference on Aquaculture Nutrition, 1st, Lew, Es/Rehoboth, Del., 1975.
Newark, Del. : College of Marine Studies, University of Delaware, viii, 323 p. : ill. ; 23 cm. -- 1976.
157.8 R29 No.260562
77007213
Note: Sponsored by the Sea Grant College Program. University of Delaware in cooperation with the U.S./Japan Aquaculture Panel. Includes bibliographies and indexes.
Search: 19760000
Source: OTHER US Doc Type: MONOGRAPH
Cat Code: 2005
Descriptors: Aquaculture; Congresses.; Fishes; Feeding And Feeds; Congresses.
- 1192637
S295.M3 Id No: 76-9121050
Experimental aquaculture of the mussel, (*Mytilus viridis* L.) as a protein source
Sivalingam, P M; Rajagopalan, K
Malays Agric Res 4 (2): 137-139. Ref. Aug 1975
S295.M3
Search: 19750800
Doc Type: ARTICLE
Cat Code: 2005
Descriptors: Malaysia
- 1224165
SH21.15 Id No: 77-9025072
The International Center for Aquaculture. Annual report for fiscal year 1974
- Alabama, Agricultural Experiment Station
Augurn 11 p. 1974 (pub. May 1976)
SH21.15
Search: 19760500
Source: EXP STN Doc Type: MONOGRAPH
Cat Code: 2005
Descriptors: Alabama
- 564904
389.8 V89 Id No: 72-9038192
Iodine content in vegetables grown in soil and by hydroponics
Fomichenko, E I
Vop Pitan 30 (5): 66-68. Ref. Eng. sum. Sept/Oct 1971
389.8 V89
Language: RUS
Search: 19711000
Doc Type: ARTICLE
Cat Code: 2030
- 628959
S544.3.H3H3 Id No: 72-9102690
Feasibility studies in aquaculture
Ball, J L
Hawaii Univ Ext Misc Publ 93: 71-73. July 1972
S544.3.H3H3
Search: 19720700
Source: EXT Doc Type: ARTICLE
Cat Code: 2035
- 628960
S544.3.H3H3 Id No: 72-9102691
Nutrition problems in aquaculture. Aquatic animals.
Bardach, J E
Hawaii Univ Ext Misc Publ 93: 74-78. July 1972
S544.3.H3H3
Search: 19720700
Source: EXT Doc Type: ARTICLE
Cat Code: 2035

- 628961
S544.3.H3H3 Id No: 72-9102692
Food as the limit to commercial shrimp aquaculture: A
challenge to the feed industry
Cordova, R D
Hawaii Univ Ext Misc Publ 93: 80-83. July 1972
S544.3.H3H3
Search: 19720700
Source: EXT Doc Type: ARTICLE
Cat Code: 2035
- 1240473
157.8 R29 Id No: 77-9040150
The role of the feed industry in developing formulated feeds
for aquaculture
MacGrath, W S Jr
PB U S Natl Tech Inf Serv 260452: 119-123. 1976
157.8 R29
Search: 19760000
Source: OTHER US
Cat Code: 2035
- 1282865
389.78 W52 Id No: 77-9076795
Hydroponically grown forage is still with us .Grass machines.
Anim Nutr Health 32 (2): 18-19. Mar 1977
389.78 W52
Search: 19770300
Source: OTHER US
Cat Code: 2035
- ANIMAL SCIENCE
- 1276747
105.2 OR3 Id No: 77-9072050
Produktiviteit van en produktiemogelijkheden in het
aquatisch milieu: Productivity of production potential in
aquiculture
Huisman, E A
Landbouwk Tijdschr 88 (7): 238-242. Ref. July 1976
105.2 OR3
Language: DUT
Search: 19760700
Doc Type: ARTICLE
Cat Code: 2505
- 1209421
100 AL1H Id No: 77-9011708
Reducing uses of energy in aquaculture
McCoy, E W; Boutwell, J L; Jolly, C M
- Alabama, Agricultural Experiment Station
Highlights Agric Res 23 (3): 10. Fall 1976
100 AL1H
Search: 19760000
Source: EXP STN Doc Type: ARTICLE
Cat Code: 2505
- 1228081
S441.R26 Id No: 77-9029023
Aquaculture: toward an ecological approach .Fish ponds on
farms.
McLarney, W D
In Radical Agriculture; R. Merrill, ed. p. 328-339. Ref.
1976
S441.R26
Search: 19760000
Source: OTHER US Doc Type: ARTICLE
Cat Code: 2505
- 1286542
SH21.I5 Id No: 77-9080497
The International Center for Aquaculture. Annual report for
fiscal year 1976
Shell, E W
Alabama, Agricultural Experiment Station; International
Center for Aquaculture
Auburn 15 p. Ref. 1976 (pub. 1977)
SH21.I5
Search: 19770500
Source: EXP STN Doc Type: MONOGRAP
Cat Code: 2505
Descriptors: Alabama
- 1292453
SH1.U5 Id No: 77-9084614
Aquacultural economics bibliography
Vondruska, J
NOAA Tech Rep NMFS SSRF U S Natl Mar Fisheries Serv 703.
123 p. Oct 1976
SH1.U5
Search: 19761000
Source: OTHER US Doc Type: ARTICLE, BIB
Cat Code: 2505

PLANT SCIENCE

- 753027
SH21.15 Id No: 73-9392985 Book Cat: 73012365
Annual report
1st - 1970/71 -
International Center for Aquaculture; Alabama. Agricultural
Experiment Station
Auburn, Ala.. Auburn University 1971-
SH21.15
73012365
Note: Project AID/csd 2780
Search: 19710000
Source: EXP STN Doc Type: SERIES
Cat Code: 2505
Descriptors: Fish-culture
- 590878
5590.85 Id No: 72-9064271
Dispositif stérile pour cultures hydroponiques: Stérile
apparat for hydroponic cultures. -Roots.
Garcia, J L; Raimbault, M; Mouraret, M
Soil Biol Int News Bull 14: 34-37. Ref. 1971
5590.85
Language: FRE
Search: 19710000
Doc Type: ARTICLE
Cat Code: 4005
- 1276199
SB320.A4 Id No: 77-9071490
Utility of hydroponic cutting technique for chromosome
number and morphology studies in Arachis .Peanuts.
Simpson, C E; Davis, K S
J APREA (Am Peanut Res Educ Assoc Inc) 7 (1): 1-3. Sept
1975
SB320.A4
Search: 19750900 Doc Type: ARTICLE
Source: OTHER US
Cat Code: 4020

VETERINARY MEDICINE

- 958405
41.8 AM3 Id No: 75-9039506
The Challenge of aquaculture for veterinarians
Miller, W R
J Am Vet Med Assoc 166 (8): 790-791. Apr 15, 1975
41.8 AM3
Search: 19750415
Doc Type: ARTICLE
Cat Code: 3005

FORESTRY

- 931786
99.9 C324 Id No: 75-9014719
Zkusenosti s hydroponickym pestovaním semenacku lesnich
drevin; Experience with hydroponic growing of forest tree
seedlings
Pospisil, J; Koutnik, V
Lesnictvi 20 (7): 665-686. Ref. Eng. sum. July 1974
99.9 C334
Language: CZE
Search: 19740700
Doc Type: ARTICLE
Cat Code: 3515
- 569047
1.962 C5171 Id No: 72-9042338
Soilless container system developed for growing conifer
seedlings
White, D P; Schneider, G
Tree Planters' Notes 23 (1): 1-4. Feb 1972
1.962 C5171
Search: 19720200
Source: USDA Doc Type: ARTICLE
Cat Code: 3515

- 778283
442.8 N22 Id No: 73-9225444
Anatomomorphological features of the roots of cucumbers and
tomatoes under conditions of hydroponics
Zelenina, M V
Nauch Dokl Vyssh Shk, Biol Nauk 7: 73-77. Ref. 1973
442.8 N22
Language: RUS
Search: 19730000
Doc Type: ARTICLE
Cat Code: 4020

1180423

20.5 P872 Id No: 76-9110242

Dziedziczenie systemow korzeniowych jeczmenia. II. Wskazniki rozmiarow systemu korzeniowego odmian Gryf, Lubuski i Skrzyszowski, rosnacych w kulturach wodnych; Inheritance of barley root systems. II. Indices of roots dimension of cultivars Gryf. Lubuski and Skrzyszowski grown in water culture

Krzywanski, Z; Wojcik-Wojtkowiak, D; Borys, M W; Stroinski, A ; Wojciechowski, J

Pr Poznan Tow Przyj Nauk Wydz Nauk Roln Lesn 41: 231-238. Eng. sum. 1976

20.5 P872

Language: POL

Search: 19760000

Doc Type: ARTICLE

Cat Code: 4025; 4035

795389

SB126.5.15 1973 Id No: 74-9004223

Risultati di un quadriennio di sperimentazione sul miglioramento genetico delle piante per la coltura idroponica e prospettive future; Results of a four years experimentation on the genetic improvement of plants for hydroponic culture and outlook for the future

Panella, A

In International Congress on Soilless Culture, 3d, Sassari, 1973. Proceedings 3d: 175-185. Eng. sum. 1973

SB126.5.15 1973

Language: ITA

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Doc Type: ARTICLE

Cat Code: 4025

1213854

QH431.A1S25 Id No: 77-9016256

Využití hydroponie ve slechtění jarního ječmene: The use of hydroponics in spring barley breeding

Ruzicka, F

Genet Slechteni 11 (3): 255-261. Eng. sum. June 1975

QH431.A1S25

Language: CZE

Search: 19750600

Doc Type: ARTICLE

Cat Code: 4025

1180422

20.5 P872 Id No: 76-9110241

Dziedziczenie systemow korzeniowych jeczmenia. I. Wplyw poziomu potasu i fosforu na wzrost jeczmenia cv.

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Wojciechowski, J; Borys, M W; Krzywanski, Z; Stroinski, A; Wojcik-Wojtkowiak, D
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Boe, A A

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Modjtchedi, H; Juste, C

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552123
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 Vigue, J T; Harper, J E; Hageman, R H; Peters, D B
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 SB126.5.15 1973 Id No: 74-9004207
 The effects of nutrient interrelationships on tomatoes in hydroponic culture
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 Attar, Subhi R
 Kuwait, Dept. of Agriculture 134 l. illus. 1972
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 Search: 19720000
 Doc Type: MONOGRAPH
 Cat Code: 4040
 Descriptors: Hydroponics; Tomato Breeding

649050
 20 AK1 Id No: 72-9122929
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 Baginskas, B P; Geguzhis, S S
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 Doc Type: MONOGRAPH
 Cat Code: 4050
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 Hudson, Joel
 Garden Grove, Calif. : National Graphics, 96 p. in various
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Descriptors: Mariculture; Law And Legislation; United
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Descriptors: Aquaculture; Catalogs.; Aquatic Animals;
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Cat Code: 7005; 9705

Descriptors: Aquaculture; Economic Aspects.; Aquaculture; Bibliography.

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Research

AUTHOR INDEX

| | | | |
|-----------------------|-------------------------|----------------------|-----------|
| Adamson, R.M. | 174,248,415 | Borys, M.W. | 46,49,321 |
| Aduayi, E.A. | 50 | Boucaud, J. | 53 |
| Akopian, R. | 175 | Boutwell, J.L. | 35,344 |
| Akopian, R.A. | 176 | Bridwell, R. | 185 |
| Alekseeva, E.S. | 87 | Brochier, J. | 186 |
| Aliiev, E.A. | 130,156,177,178,416,417 | Brooking, I.R. | 54 |
| Allen, G.H. | 372 | Broussard, M.C. | 402 |
| Anderson, J.I.W. | 22 | Broussard, M.C.Jr. | 369 |
| Andreae, B. | 362 | Brown, J.E. | 394 |
| Andrews, P. | 273 | Buck, D.H. | 1 |
| Apostalski, K.M. | 6 | Bukhbinder, M.A. | 187-189 |
| Aron, P.L. | 187-189,266 | Burgess, G.P. | 82 |
| Arsovski, B.S. | 6 | Burns, E.R. | 365 |
| Aslanian, G.G. | 179 | Buroni, N. | 190 |
| Attar, S. | 106 | Businelli, M. | 142,143 |
| Attar, S.R. | 107 | Busova, T.P. | 115 |
| Aviakin, A.G. | 179 | Buts, M. | 191 |
| Azizov, S. | 338 | Butters, R.E. | 114 |
| Babakhanian, M.A. | 313,314 | Bznuni, A.B. | 203 |
| Baginskas, B.P. | 108-110,157,180,326,363 | Campbell, F.J. | 192 |
| Baikova, S.N. | 181 | Canizo, A. | 55 |
| Baker, J.D. | 182 | Canterbery, E.R. | 393 |
| Bakker-Arkema, F.W. | 345 | Carle, G.A. | 193 |
| Ball, J.L. | 29 | Carpenter, R.L. | 374,375 |
| Ballard, K.A. | 319 | Carter, J. | 365 |
| Balloni, W. | 111 | Carus More, F. | 418 |
| Banfi, G. | 112 | Cecere, E. | 112 |
| Bankin, M.P. | 113 | Celestre, M.R. | 111 |
| Bardach, J.E. | 30,392 | Cesar, G. | 2 |
| Bazhanova, N.V. | 51 | Chavin, W. | 367 |
| Bell, F.W. | 393 | Chechelashvili, A.K. | 194 |
| Belous, I.I. | 130 | Chen, W.S. | 195 |
| Bentley, M. | 158 | Cherkes, A. | 196 |
| Berrie, A.M.M. | 164 | Chesnokov, V.A. | 115,159 |
| Berry, W.L. | 183,235,373 | Chlchester, H.G. | 375 |
| Binet, P. | 61 | Chisnikov, V.S. | 259 |
| Blanc, D. | 243,364 | Coic, Y. | 116 |
| Blesa-Rodriguez, A.C. | 353 | Coleman, M.S. | 374,375 |
| Bliss, F.A. | 324 | Condrey, R.E. | 319 |
| Blum, S.C. | 19 | Conklin, D.E. | 12 |
| Boe, A.A. | 52 | Connor, L.J. | 345 |
| Bokhari, U.G. | 88 | Cooper, A. | 197,198 |
| Bolton, A.T. | 320 | Cooper, A.J. | 117,199 |
| Bondarenko, L.O. | 184 | Cordover, R.D. | 31 |
| Boomstra, A.G. | 324 | Corrigan, K. | 200 |
| Borowski, E. | 149 | Crawford, K.W. | 8 |

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Criley, R.A. | 201 | Gevorkian, A.G. | 51 |
| Dabski, M. | 149 | Ghittino, P. | 20 |
| Davidescu, D.A.N. | 202 | Gislerod, H.R. | 215 |
| Davidson, J. | 235 | Giusquiani, P.L. | 142,143 |
| Davis, K.S. | 44 | Glezman, G.M. | 367 |
| Davtian, G.S. | 56,203,313,314,419 | Gluntsov, N.M. | 461 |
| Davtian, N.G. | 460 | Gohler, F. | 216,217,424 |
| Davtian, V.A. | 430 | Goldman, J.C. | 62,387,388 |
| Dennis, L. | 372 | Gomez, M. | 242 |
| Devik, O. | 395 | Gopalakrishnan, V. | 398 |
| Dickerman, A.C. | 160 | Gorback, V. Ia. | 189 |
| Dickerman, J. | 160 | Goslewski, W. | 218 |
| Djokic, D. | 88 | Gracz-Nalepka, M. | 63,162,220 |
| Dobrev, K. | 205 | Green, V.E.Jr. | 172 |
| Donnelly, R.F. | 376 | Griscom, C.A. | 396 |
| Douglas, J.S. | 161,170,206,284,339, 420,421 | Gromakovskii, I.K. | 343 |
| Durany Carol, U. | 207 | Groninger, H.S. | 397 |
| Dvornin, A.V. | 208 | Grosa, V.F. | 462 |
| Dykyjova, D. | 59,60 | Guliev, B.I. | 130 |
| Ermakov, E. | 354 | Guminska, Z. | 63,162,219-222 |
| Ermakov, E.I. | 209,422 | Gurgel, K.D. | 223 |
| Favilli, F. | 111 | Gzirishvili, O. Sh. | 118 |
| Favilli, R. | 210 | Haberkorn, J.P. | 3 |
| Feofilov, E.V. | 436 | Hageman, R.H. | 105 |
| Ferard, G. | 61 | Haidamak, V.M. | 432 |
| Ferda, J. | 355 | Halvorson, A.D. | 350 |
| Fessler, A. | 211 | Hamilton, W.W. | 229 |
| Fiedler, H.J. | 89,90 | Hanan, J.J. | 224,425 |
| Filatkina, L.A. | 459 | Haneda, A. | 132,133 |
| Fleischer, R. | 212 | Hara, S. | 225,226 |
| Flynn, L. R. | 213 | Hara, T. | 119-121 |
| Fomichenko, E.I. | 28 | Harper, J.E. | 105 |
| Fong, K.H. | 300,423 | Harris, D.A. | 163,164 |
| Fonseka, J.P. | 79 | Harris, J. | 227 |
| Ford, D.R. | 458 | Harrison, K.W. | 273 |
| Freytag, A.H. | 91 | Haut, H. van | 228 |
| Fujiwara, A. | 214,315 | Havelka, F. | 355 |
| Fukuda, S. | 278 | Havis, J.R. | 229 |
| Fukui, S. | 144,145,290 | Henderson, J.P. | 375 |
| Fukushima, M. | 255 | Henderson, U.B. | 377,378 |
| Gagnaire, J. | 61 | Hepher, B. | 366 |
| Garcia, J.L. | 43 | Hillier, R.J. | 426 |
| Gates, J.M. | 396 | Hoffman, F. | 212 |
| Gavalas, N.A. | 327,328 | Holley, W.D. | 425 |
| Gavtyan, G.S. | 57,204 | Honn, K.V. | 367 |
| Geguzhene, Z.P. | 157,180,363 | Hovikov, V.K. | 177 |
| Geguzhis, S.S. | 108-110,157,180,326, 363 | Hradecka, D. | 59 |
| George, J.R. | 458 | Hudson, J. | 165 |
| | | Huguenin, J.E. | 379 |
| | | Huguet, J.G. | 122 |

| | | | |
|---------------------|-------------|----------------------------|-----------------|
| Huisman, E.A. | 34 | Koutnik, V. | 41 |
| Huner, J.V. | 23 | Kramer, J. | 167 |
| Hurd, R.G. | 123,146 | Kreitsberg, O.E. | 464 |
| Huong, D.T. | 427 | Krisper, J. | 125 |
| Hycka Maruniak, M. | 428 | Kristkalne, S.Kh. | 462 |
| Ichikawa, T. | 340 | Krnjaic, D. | 329 |
| Ifergan, C. | 243 | Krnjaic, S. | 329 |
| Il'iashenko, O.M. | 359 | Krusteva, Z. | 126 |
| Imaizumi, H. | 230,341 | Krylov, D.D. | 238 |
| Inouye, T.T. | 376 | Krzywanski, Z. | 46,49 |
| Ishihara, M. | 152 | Kuchuhura-Kucherenko, N.K. | 127,356,357 |
| Itagi, T. | 231-233 | Kuliukin, A.N. | 74,239 |
| Ivanova, I.L. | 115 | Kurihara, H. | 292,293 |
| Iwai, I. | 119-121 | Kuroda, K. | 289 |
| Jacobs, S.A. | 380-382 | Kurzmann, P. | 269 |
| Jacot, D. | 234 | Kushnir, H.P. | 432 |
| Jarman, R. | 374,377 | Lagutinskaja, N.A. | 134 |
| Jelenic, D. | 358 | Lanuza, J.M.de | 154,433 |
| Jennings, D.H. | 135 | Large, R.V. | 24 |
| Jhingran, V.G. | 398 | Larsen, J.E. | 240,241 |
| Johnson, H. | 235 | Lastuvka, Z. | 434,435 |
| Jolly, C.M. | 35,344 | Lavrik, A.S. | 417 |
| Jones, J.L. | 166 | Law, J.P. | 384 |
| Jung, J. | 64 | Leal, A. | 242 |
| Juste, C. | 93 | Lebl, D.O. | 436 |
| Kaban, P.I. | 463 | Ledovskii, S.Ya. | 128 |
| Kadowaki, M. | 214,315 | Lenkovskii, B.L. | 187 |
| Kadysh, A.G. | 156,177,417 | Lentz, M.L. | 66 |
| Kalamasz, D.F. | 319 | Lerner, A. | 9 |
| Kapelev, I.G. | 429 | Lesaint, C. | 116 |
| Kaptsynel', Iu.M. | 100-102 | Lesel, R. | 243 |
| Kawakami, M. | 316 | Leszner, M. | 162 |
| Kazarian, V.V. | 65,430 | Liac, T.R. | 244 |
| Keller, N.D. | 342 | Limouzin, F. | 122 |
| Kerfoot, W.B. | 380-383 | Lindsay, W.L. | 350 |
| Kern, R.B. | 319 | Lira, E.P. | 91 |
| Khrenova, L.K. | 209 | Little, E.C.S. | 245 |
| Kilifanchuk, V.I. | 343 | Loginov, V.V. | 437 |
| Kimura, K. | 291 | Longevialle, M. | 67 |
| Kitchener, H.M. | 236 | Lorenze, F.C. | 246 |
| Klein, W. | 69,131,337 | Ludajic, R. | 358 |
| Koeppe, D.E. | 335 | Lukasiewicz, B. | 162,220 |
| Kohli, J. | 337 | Lunt, O.R. | 373 |
| Kondo, T. | 292,293 | Luque Escalona, A.de | 353 |
| Koppers, U. | 237 | Maas, E.F. | 174,247,248,415 |
| Korobchenko, Iu. T. | 124,432 | MacGrath, W.S.Jr. | 32 |
| Korsun, V. | 191 | MacLeod, L.B. | 457 |
| Kousalova, I. | 94 | Madewell, C.E. | 365 |

| | | | |
|--------------------|------------|---------------------|-------------------------------------|
| Mairapetian, S.Kh. | 419 | Murei, I.A. | 140 |
| Mairapetyan, S.K. | 204 | Naegel, L.C.A. | 254 |
| Makarenko, L.N. | 74,239 | Nagae, S. | 330 |
| Maksimova, E.V. | 459 | Nagy, B. | 442 |
| Malina, M.M. | 87 | Namiki, T. | 132,133,144,145,255, 256,289,290 |
| Maltabar, L.M. | 249 | Natali, S. | 257 |
| Mamev, I.K. | 250 | Nati, L. | 94 |
| Mann, J. | 251 | Natrova, Z. | 94 |
| Marinkovic, M. | 58 | Newman, R. | 258 |
| Markin, E.F. | 209 | Nielsen, N.E. | 70,71,95 |
| Marquez, M.Q. | 438 | Niidome, I. | 322 |
| Marras, G.F. | 92,253,360 | Nikishanova, T.I. | 443 |
| Martin, J.B. | 365 | Nikolenko, V.G. | 134,259,260 |
| Martynenko, V.D. | 177 | Nishi, S. | 132,133,144,145, 255,256,289,290 |
| Massantini, F. | 210 | Noguera, P.J. | 260 |
| Massantini, T. | 252 | Noller, C.H. | 458 |
| Matthiessen, G.C. | 396 | Noritake, T. | 291 |
| McBee, G.G. | 440 | North, W.J. | 317 |
| McCoy, E.W. | 35,344 | Nowak, T. | 219 |
| McLarney, W.O. | 36,392 | Nowosielski, O. | 262-264,348 |
| McNeil, W.J. | 439 | Oda, M. | 256 |
| Meekhof, R.L. | 345 | Odum, W.E. | 386 |
| Mendi, E. | 273 | Ohira, K. | 214 |
| Menn, W.G. | 440 | Ohki, K. | 300 |
| Merva, G.E. | 345 | O'Leary, J.W. | 331 |
| Meske, C. | 399 | Ondok, P.J. | 59 |
| Meyers, S.P. | 385 | Onis, J. M. de | 444 |
| Mezhunts, B.Kh. | 129 | Orchard, B. | 265 |
| Michl, H. | 125 | Ortega, B.C. | 99 |
| Mijla, M. | 92,253,360 | Osipov, F.S. | 266 |
| Miller, R. | 397 | Otani, K. | 72 |
| Miller, R.J. | 335 | Palmer, F.E. | 319 |
| Miller, W.R. | 40 | Panella, A. | 47 |
| Milletti, G. | 68 | Parker, N.C. | 369,402 |
| Mil'shtein, A.I. | 266 | Patel, P.M. | 332 |
| Minarz, I. | 434,435 | Patwardhan, W.D. | 318 |
| Mitrofanov, B.A. | 130 | Payne, L.F. | 73 |
| Mitrophanova, S.V. | 130 | Penningsfeld, F. | 267-269 |
| Miyamoto, T. | 292,293 | Perez Brull, I. | 99 |
| Moawad, M.A. | 351,441 | Perez Mellan, G. | 270 |
| Modjtehed, H. | 93 | Perov, N.N. | 359 |
| Morais, R.T. | 368 | Perry, T.W. | 426 |
| Moroshan, E.A. | 208 | Person, P.N. | 349 |
| Morrissey, N.M. | 400 | Peterburgskii, A.V. | 74 |
| Moss, D.D. | 401 | Peters, D.B. | 105 |
| Mostafa, I. | 69,131 | Petrovic, M. | 447 |
| Mouraret, M. | 43 | Phillips, R.D. | 135 |
| Moza, P. | 69,131 | | |
| Munoz Cobo, M.T.M. | 154,433 | | |

| | | | |
|------------------------|------------|---------------------|-----------------|
| Phillips, W. H. | 271 | Ruzicka, F. | 48,168 |
| Pile, R.S. | 365 | Ryther, J.H. | 379,387,388,392 |
| Pillay, T.V.R. | 403 | Sabashvili, R.G. | 78 |
| Pinkhasov, M. | 7 | Sadkovskii, V.P. | 336 |
| Plontkovskii, V.I. | 156 | Sagromsky, H. | 169 |
| Plotnikov, V.F. | 336 | Salto, S. | 278 |
| Polinov, S. | 7 | Salomon, M. | 446 |
| Poole, H.A. | 10 | Samukawa, K. | 96-98 |
| Popazova, A.D. | 102 | Sanchez Conde, P. | 99,138 |
| Popovych, F. Ia. | 272 | Sanchez-Raya, A. J. | 242 |
| Poppensiek, G.C. | 13 | Sandanam, S. | 79,139 |
| Pospisil, J. | 41 | Saric, Z. | 447 |
| Powers, J.E. | 14 | Sarukhanian, N.G. | 279 |
| Prasad, R.R. | 21 | Sasaki, K. | 231-233 |
| Priakhin, V.N. | 78 | Sasaki, M. | 214,315 |
| Priban, K. | 60 | Scharlau, G. | 280 |
| Price, K.S. | 25 | Schippers, P.A. | 281 |
| Printy, W.L. | 150 | Schisler, I.P. | 345 |
| Ragghianti, E. | 257 | Schmittou, H.R. | 404 |
| Raimbault, M. | 43 | Schneider, G. | 42 |
| Rajagopalan, K. | 26 | Schreiber, H.A. | 73 |
| Rakitina, E.G. | 454 | Schreiber, L.R. | 155 |
| Rathmell, J. | 273 | Schroeder, G.L. | 366 |
| Rausser, W.E. | 333 | Schubert, M. | 282,283 |
| Recalde, L. | 242 | Schultink, V.M. | 345 |
| Redmann, G.A. | 383 | Schwarz, M. | 370,448-451 |
| Reissbrodt, R. | 89,90 | Scognamiglio, A. | 334 |
| Rempe, E.Kh. | 75,325 | Sdvizhkov, A. | 346 |
| Renaud, J.E. | 274 | Selman, I.W. | 139 |
| Rhykerd, C.L. | 458 | Shang, Y.C. | 15 |
| Ricciardi, P. | 334 | Sharp, T.R. | 389 |
| Richter, W. | 89 | Sharpless, R.G. | 150 |
| Rieley, J.O. | 76 | Shead, D. | 452 |
| Rivoira, G. | 92,253,360 | Shell, E.W. | 37 |
| Roberts, K.J. | 5 | Shimanovich, B.I. | 249 |
| Robinson, J. | 275 | Shipitsyna, I.N. | 453 |
| Rodionova, L.G. | 140 | Shtrausberg, D.V. | 140,454 |
| Rodnikov, N. | 276 | Shtreis, R.I. | 422 |
| Rodriguez Barrueco, C. | 55 | Simpson, C.E. | 44 |
| Romney, E.M. | 466 | Sindiukova, N.I. | 285 |
| Root, R.A. | 335 | Singh, J.S. | 88 |
| Roth, M.G. | 345 | Sivalingam, P.M. | 26 |
| Roux, L. | 136 | Slawska, M. | 162 |
| Rouzaud, P. | 4 | Smith, F.J. | 5,11 |
| Rozov, N.F. | 77,137 | Smoter, J. | 262 |
| Rucker, K. | 277 | Sobol', L.S. | 115 |
| Runev, I. | 205 | Sobolewicz, E. | 220 |
| Rusakova, G.G. | 445 | Sonoda, Y. | 119-121 |
| Russell, J.E. | 323 | Sova, V.P. | 141,455 |

| | | | |
|----------------------|---|----------------------|-------------|
| Spector, T. | 286 | Uziak, Z. | 149 |
| Spomer, L.A. | 287 | Vaadia, Y. | 448,449 |
| Stanghellini, M.E. | 323 | VandeVenter, H.A. | 104 |
| Stanley, H.I. | 62 | Van Dyke, J.M. | 172 |
| Stieglitz, C.R. von | 456 | Van Goor, B.J. | 301 |
| Stoughton, R.H. | 171 | Van Lune, P. | 301 |
| Stout, B.A. | 345 | Vartanian, A.K. | 279 |
| Strolnska, A. | 46,49 | Vartapetian, B.B. | 460 |
| Sugimoto, N. | 151 | Vasil'ev, V.G. | 187 |
| Suilleabhain, A.N.O. | 80 | Veber, K. | 60 |
| Summerfield, R.J. | 76 | Vendilo, G.G. | 81,181,461 |
| Surgucheva, M.P. | 100-102 | Vigue, J.T. | 105 |
| Suruzhiu, V.T. | 288 | Vitola, A.K. | 462 |
| Suzuki, M. | 457 | Vlasiuk, P.A. | 463 |
| Suzuki, Y. | 195 | Voitsekovich, Z.V. | 464 |
| Swarbrick, R.E. | 19 | Volchek, Z.N. | 189 |
| Swingle, H.S. | 405 | Vondruska, J. | 38,407 |
| Szekely, E. | 451 | Vyshniys'kyl, A.M. | 272 |
| Szmidt, B. | 262 | Wadsworth, G.A. | 114 |
| Tafuri, F. | 142,143 | Wallace, A. | 332,373 |
| Takama, F. | 278 | Wallihan, E.F. | 150 |
| Takashima, S. | 132,133,144,145, 151,255,256,289,290 | Walls, I.G. | 164 |
| Takasu, K. | 291 | Watanabe, R.T. | 201 |
| Takeuchi, T. | 144 | Weisgerber, I. | 131,337 |
| Talame, M. | 334 | Wert, F.S. | 377,378 |
| Tanaka, N. | 289 | White, D.P. | 42 |
| Tanbara, K. | 292,293 | White, J.W. | 465 |
| Tanew, S. | 125 | White, P.J. | 82 |
| Taplador, D. D. | 406 | Wieland, P.A.T. | 466 |
| Taub, F.B. | 319 | Wille, D. | 302 |
| Taushkanova, A.R. | 209 | Wilson, J. | 303,347,361 |
| Telezynska, J. | 103 | Wisniewska, H. | 262 |
| Thornley, J.H.M. | 123,146 | Wojciechowski, J. | 46,49 |
| Tisseau, R. | 294 | Wojcik-Wojkowiak, D. | 46,49 |
| Todorov, I. | 295 | Wolfe, L. | 408 |
| Toyama, M. | 147,352 | Yamazaki, K. | 195 |
| Trakhtman, I.M. | 249,296 | Yarosh, M.M. | 390 |
| Tripathi, S.D. | 16 | Yazaki, K. | 151 |
| Tropea, M. | 148 | Yokomizo, H. | 152 |
| Trubey, C.R. | 458 | Zamota, V.P. | 459 |
| Tsvetkova, I.V. | 459 | Zelenina, M.V. | 45 |
| Tu, P. | 297,298 | Zemshman, A. Ia. | 343 |
| Tudge, C. | 299 | Zharichenko, G.I. | 343 |
| Tummala, R.I. | 345 | Zhdanov, S.M. | 77 |
| Turgeon, A.J. | 274 | Zhukov, A.I. | 359 |
| Turkiewicz, T. | 220 | Ziablova, I.N. | 102 |
| Ulrich, A. | 300,423 | | |
| Ungurianu, S.I. | 249 | | |